ACE GLASS INCORPORATED

O-Ring Reference

Size*	Dimensions I.D.,mm	W.	Pkg. Qty.	Viton® Order Code	Silicone Order Code	Buna-N Order Code	FETFE® Order Code	EPDM Order Code	Pkg. Qty.	Chemraz® Order Code	Kalrez® Order Code	CAPFE™ Order Code
-006	2.9	1.78	12	7855-01	7855-201	7855-401	7855-701	—	1	7859-501	7855-601	—
-007	3.7	1.78	12	7855-02	7855-202	7855-402	7855-702	—	1	7859-502	7855-602	—
-008	4.5	1.78	12	7855-04	7855-204	7855-404	7855-704	7855-904	1	7859-504	7855-604	—
-009	5.3	1.78	12	7855-07	7855-207	7855-407	7855-707	—	1	7859-507	7855-607	—
-010	6.1	1.78	12	7855-05	7855-205	7855-405	7855-705	—	1	7859-505	7855-605	7855-805
-011	7.7	1.78	12	7855-06	7855-206	7855-406	7855-706	7855-906	1	7859-506	7855-606	7855-806
-012	9.2	1.78	12	7855-08	7855-208	7855-408	7855-708	7855-908	1	7859-508	7855-608	7855-808
-013	10.8	1.78	12	7855-10	7855-210	7855-410	7855-710	7855-910	1	7859-510	7855-610	7855-810
-014	12.4	1.78	12	7855-12	7855-212	7855-412	7855-712	7855-912	1	7859-512	7855-612	—
-015	14.0	1.78	12	7855-13	7855-213	7855-413	7855-713	—	1	7859-513	7855-613	7855-813
-016	15.6	1.78	12	7855-14	7855-214	7855-414	7855-714	7855-914	1	7859-514	7855-614	—
-018	18.8	1.78	12	7855-15	7855-215	7855-415	7855-715	—	1	7859-515	7855-615	7855-815
-021	23.5	1.78	12	7855-19	7855-219	7855-419	7855-719	—	1	7859-519	7855-617	7855-819
-022	25.1	1.78	12	7855-17	7855-217	7855-417	7855-717	—	1	7859-517	7855-619	7855-817
-105	3.6	2.6	12	7855-03	7855-203	7855-403	7855-703	—	1	7859-503	7855-650	—
-107	5.2	2.6	12	7855-09	7855-209	7855-409	7855-709	—	—	—	—	—
-108	6.0	2.6	12	7855-11	7855-211	7855-411	7855-711	—	1	7859-511	7855-653	—
-110	9.2	2.6	12	7855-16	7855-216	7855-416	7855-716	7855-916	1	7859-516	7855-616	7855-816
-111	10.8	2.6	12	7855-18	7855-218	7855-418	7855-718	—	1	7859-518	7855-618	7855-818
-112	12.4	2.6	12	7855-20	7855-220	7855-420	7855-720	—	1	7859-520	7855-620	7855-820
-113	13.9	2.6	12	7855-21	7855-221	7855-421	7855-721	—	1	7859-521	7855-621	7855-821
-114	15.5	2.6	12	7855-22	7855-222	7855-422	7855-722	7855-922	1	7859-522	7855-622	7855-822
-115	17.1	2.6	12	7855-24	7855-224	7855-424	7855-724	—	1	7859-524	7855-623	7855-824
-116	18.7	2.6	12	7855-26	7855-226	7855-426	7855-726	7855-926	1	7859-526	7855-626	7855-826
-118	21.9	2.6	12	7855-70	7855-270	7855-470	7855-770	—	1	7859-570	7855-655	7855-870
-121	26.6	2.6	12	7855-27	7855-227	7855-427	7855-727	7855-927	1	7859-527	7855-627	7855-827
-122	28.2	2.6	6	7855-71	7855-271	7855-471	7855-771	—	1	7859-571	7855-657	7855-871
-123	29.8	2.6	6	7855-28	7855-228	7855-428	7855-728	7855-928	1	7859-528	7855-658	7855-828
-125	33.0	2.6	6	7855-72	7855-272	7855-472	7855-772	—	1	7859-572	7855-659	7855-872
-127	36.2	2.6	6	7855-76	7855-276	7855-476	7855-776	—	1	7859-576	7855-670	7855-876
-128	37.8	2.6	6	7855-73	7855-273	7855-473	7855-773	—	1	7859-573	7855-671	7855-873
-136	50.5	2.6	6	7855-29	7855-229	7855-429	7855-729	7855-929	1	7859-529	7855-629	7855-829
-210	18.6	3.5	6	7855-30	7855-230	7855-430	7855-730	7855-930	1	7859-530	7855-630	7855-830
-211	20.2	3.5	6	7855-32	7855-232	7855-432	7855-732	7855-932	1	7859-532	7855-632	7855-832
-212	21.8	3.5	6	7855-34	7855-234	7855-434	7855-734	7855-934	1	7859-534	7855-634	7855-834
-213	23.4	3.5	6	7855-36	7855-236	7855-436	7855-736	—	1	7859-536	7855-675	7855-836
-214	25.0	3.5	6	7855-38	7855-238	7855-438	7855-738	7855-938	1	7859-538	7855-676	7855-838
-215	26.6	3.5	6	7855-37	—	7855-437	—	—	—	—	—	—
-216	28.2	3.5	6	7855-39	7855-239	7855-439	7855-739	7855-939	1	7859-539	7855-677	—
-217	29.7	3.5	6	7855-40	7855-240	7855-440	7855-740	—	1	7859-540	7855-640	7855-840
-218	31.3	3.5	6	7855-41	—	7855-441	—	—	—	—	—	—
-219	32.9	3.5	6	7855-43	—	7855-443	—	—	—	—	—	—
-220	34.5	3.5	6	7855-42	7855-242	7855-442	7855-742	7855-942	1	7859-542	7855-642	7855-842
-221	36.1	3.5	6	7855-51	—	7855-451	—	—	—	—	—	—
-222	37.7	3.5	6	7855-52	—	7855-452	—	—	—	—	—	—
-223	40.9	3.5	3	7855-74	7855-274	7855-474	7855-774	—	1	7859-574	7855-680	7855-874
-225	47.2	3.5	3	7855-44	7855-244	7855-444	7855-744	7855-944	1	7859-544	7855-644	7855-844
-226	50.4	3.5	3	7855-46	7855-246	7855-446	7855-746	7855-946	1	7859-546	7855-684	7855-846
-227	53.6	3.5	3	7855-45	7855-245	7855-445	7855-745	—	1	7859-545	7855-685	7855-845
-228	56.7	3.5	3	7855-47	7855-247	7855-447	7855-747	—	1	7859-547	7588-686	7855-847
-229	59.9	3.5	3	7855-48	7855-248	7855-448	7855-748	7855-948	1	7859-548	7855-648	7855-848
-230	63.1	3.5	3	7855-75	7855-275	7855-475	7855-775	7855-975	1	7859-575	7855-689	7855-875
-232	69.4	3.5	3	—	—	—	—	—	1	—	—	7855-877
-233	72.6	3.5	3	—	—	—	7855-778	—	—	—	—	—
-235	79.0	3.5	3	7855-64	7855-264	7855-464	7855-764	—	1	—	7855-687	7855-864
-239	91.7	3.5	3	7855-69	—	—	—	—	—	—	—	—
-240	94.9	3.5	3	7855-78	—	—	—	—	—	—	—	—
-317	23.2	5.3	—	—	—	—	—	—	1	—	7855-660	7855-860
-325	37.5	5.3	3	7855-65	—	7855-453	—	—	—	—	—	—
-326	40.6	5.3	3	7855-67	—	7855-454	—	—	—	—	—	—
-327	43.8	5.3	3	7855-68	7855-278	7855-455	—	—	1	7859-578	7855-690	—
-329	50.2	5.3	3	—	7855-283	—	7855-783	—	1	—	—	7855-883
-335	69.2	5.3	3	—	—	7855-499	—	—	—	—	—	—
-336	72.4	5.3	3	7855-82	7855-282	—	7855-782	—	—	—	—	—
-338	78.7	5.3	3	7855-77	7855-277	—	7855-777	—	—	—	—	—
-341	88.3	5.3	3	7855-50	7855-250	7855-450	7855-750	—	1	7859-550	7855-691	7855-850
-343	94.6	5.3	3	7855-66	7855-266	—	7855-766	—	—	—	—	—
-348	110.5	5.3	3	7855-79	—	—	7855-779	—	1	7859-579	7855-692	7855-879
-349	113.7	5.3	3	—	7855-287	—	7855-787	—	1	—	7855-693	7855-887
-359	145.4	5.3	—	—	7855-289	—	—	—	1	—	7855-694	7855-889
-361	151.8	5.3	—	—	—	—	—	—	1	—	—	7855-861
5-101	2.5	0.97	12	7855-80	—	—	—	—	—	—	—	—
5-193	4.5	1.0	12	7855-81	7855-281	—	—	—	—	—	—	—
5-017	6.1	2.6	12	—	—	7855-482	—	—	—	—	—	—
—	75.5	4.0	1	7855-83	7855-251	—	—	—	1	—	7855-695	7855-878
—	110.0	5.0	1	7855-84	7855-254	—	—	—	1	—	7855-696	7855-880
—	150.0	5.0	1	7855-85	7855-260	—	—	—	1	—	7855-697	7855-881
—	215.0	5.0	1	—	7855-288	—	—	—	1	—	7855-698	7855-884
O-Ring Kits — 30 Sizes			500	7855-99	—	7855-499	—	—	—	—	—	—
O-Ring Sets — one box of 18 sets				—	—	—	8194-310	—	—	—	—	—
O-Ring Sets — one box of 18 sets				—	—	—	8194-313	—	—	—	—	—
O-Ring Sets — one box of 12 sets				—	—	—	8194-315	—	—	—	—	—
O-Ring Sets — one box of 6 sets				—	—	—	8194-317	—	—	—	—	—

Sizes not listed are available via special order. Call or email for quotation.

Viton®[1] A

This class of elastomers is a family comprised of linear co-polymer of vinylidene fluoride and hexafluoropropylene. Fluorine content is between 66 to 70%. Generally black in color, and with generally good temperature and chemical resistance.

Buna-N

Also know as Nitrile rubber, is a synthetic blended rubber, co-polymer of acrylonitrile and butadiene. Generally resistant to fuels and oils. Generally black or brown in color.

CAPFE™

An ACE exclusive o-ring with a resilient rubber core encased in a thick, non-porous FEP/PTFE. Offers both resilience and chemical resistance. Thick PTFE encapsulation permits wide application without leakage or deterioration.

Chemraz®[3]

A white perfluoroelastomer (FFKM + TFE) compound with high temperature and chemical resistance. Has all the properties and inertness of PTFE. Great for Pharmaceutical or food applications where high purity is a must.

EPDM

This is a type of synthetic rubber of ethylene-propylene also referred to as EPDM; E = ethylene, P = propylene, D = diene and M refers to monomer or M-class rubber, (ASTM D1418). Good soft general seal with wide applications and good compression set. Can be green, brown or black in color.

FETFE®[2]

An ACE exclusive compound which is a fluoroelastomer (FKM) with PTFE additives serving as an internal lubricant. It has good compression set along with excellent temperature and chemical compatibility. Generally black in color.

Kalrez®[1]

A perfluoroelastomer (FFKM, 4079) compound with high temperature and chemical resistance. Has all the properties and inertness of PTFE. Great for Pharmaceutical or food applications where high purity is a must. Also excellent in semiconductor applications. Generally black but can be white also. FDA compliant Kalrez® 6230 available upon request.

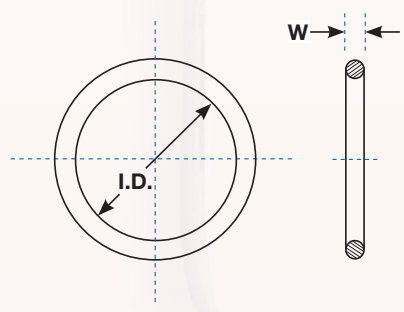
Silicone

Is a “rubber-like” compound of silicone, (itself a polymer) containing silicon with carbon, hydrogen and oxygen. It is non-reactive and stable with good temperature resistance. Generally red in color and has excellent compression set.

[1]Registered Trademark of E.I. Dupont & Co.

[2]Registered Trademark of Ace Glass, Inc.

[3]Registered Trademark of Green, Tweed & Co.



CHEMICAL COMPATIBILITY CHART

Key: 1=Recommended; 2=Satisfactory; 3=Poor; 4=Marginal; 5=Not Recommended; A=Acceptable; NA=Not Acceptable

	Viton	Silicone	Buna-N	EPDM	Chemraz 514	Kalrez 4079	FETFE	CAPFE
Temperature Range °C	–26 to 204	–62 to 204	–37 to 121	–54 to 149	–30 to 220	–15 to 316	–18 to 204	–60 to 204
Compression set	2	2	2	2	2	2	2	3
Durometer	75	70	70	70	70	75	70	70
Steam < 120 °C	3	4	4	4	1	1	1	5
Acetone	4	3	3	2	1	1	5	1
Toluene	2	3	3	3	1	1	2	2
Tetrachloroethane	1	3	3	3	1	1	1	2
THF	4	4	4	4	1	1	5	3
Methyl Ethyl Ketone	5	5	5	2	1	1	5	2
Acetonitrile	5	5	5	5	1	1	5	2
Hydrochloric Acid (conc)	2	5	4	5	1	1	2	4
Ammonia Gas (cold)	4	1	2	2	1	1	4	2
Tetrachloroethylene	3	5	3	3	1	1	3	2
Sulfuric Acid (dilute)	2	5	1	5	2	2	2	2
Nitric Acid (conc)	2	5	4	5	1	1	2	4
Calcium Carbonate	2	5	1	1	1	1	2	2
Xylene	2	4	4	3	1	1	2	2
Mineral Oils	1	2	1	4	1	1	1	1
Sodium Carbonate	1	1	1	1	1	1	1	2
Vacuum	1	4	2	4	4	4	1	2
FDA	A	A	A	A	NA	NA	NA	A

Chemical compatibility information courtesy of the respective manufacturers of each o-ring type. Ace is not responsible for errors.

CROSS REFERENCES

Ace-Thred Sizes	CORRESPONDING O-RING SIZES FOR: PTFE/Nylon Bushings O-Ring Sizes	PTFE Plug/Front Seal O-Ring Sizes	PTFE Plug/Back Seal O-Ring Sizes
#7	–008	–009	–014
#11	–012	–012	–114
#15	–110	–110	–210
#18	–112	–113	–212
#25	–212	–212	–220
#36	–217	–125	–223
#50	–225	–225	–229
#80	–336	–235	–343

Ace-Safe Connection Sizes	to	Corresponding O-Ring Sizes
#7 Hose Connection		–009
#11 Hose Connection		–011
#15 Hose Connection		–013
#25 Hose Connection		–118

7648 Glass Std Taper Joint Sizes	to	Corresponding O-Ring Sizes
14/10, 14/35 or 14/20		–012
19/22 or 19/38		–111
24/40		–115
29/32 or 29/42		–118

Micro/Mini Scale Joint Sizes	to	O-Ring Sizes
5/5		–006
7/10		–010
10/10		–011
14/10 & 14/20		–112

Spherical Joint Sizes	to	O-Ring Sizes
12/5		–011
18/9		–014
28/15		–116
35/25		–118

Flat O-Ring Joint Sizes	to	O-Ring Sizes
5		–110
7		–111
9		–112
15		–116
20		–214
25		–217
40		–226
50		–229
75		–341

ACE GLASS INCORPORATED

P.O. Box 688 • Vineland, NJ 08362-0688 • 856-692-3333 • Fax: 856-692-8919

TOLL-FREE: 1-800-223-4524 • FAX: 1-800-543-6752

www.aceglass.com e-mail: sales@aceglass.com

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